



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/771,363	01/26/2001	Brant L. Candelore	80398.P213	6441	
75	7590 05/20/2004			EXAMINER	
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP			KLIMACH, PAULA W		
Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			ART UNIT	PAPER NUMBER	
			2135	<u></u>	
			DATE MAILED: 05/20/2004	, 7	

Please find below and/or attached an Office communication concerning this application or proceeding.

1

		Λ				
	Application No.	Applicant(s)				
Office Action Summary	09/771,363	CANDELORE, BRANT L.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Paula W Klimach	2135				
Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 M</u>	<u>ay 2001</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	г.					
10) The drawing(s) filed on is/are: a) acc	epted or b) $\square$ objected to by the $\mathfrak l$	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority document:  2. Certified copies of the priority document:  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da 5) ☐ Notice of Informal P	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,,				

- Application/Control Number: 09/771,363

Art Unit: 2135

## **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Son et al (6,229,895 B1).

In reference to claim 1, Son discloses a method for managing program data wherein the program data is descrambled (column 3 lines 49-57) then the program data is re-scrambled, for future access to the content, using a local key (column 3 line 57 to column 4 line 10).

In reference to claim 2, further comprising encrypting the local key with a unit key and inserting the encrypted key into the program data for future access (column 4 lines 11-16).

In reference to claim 3, wherein the local key is a locally generated random number (column 3 lines 60 to column 4 line 10).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Son in view of Wasilewski (US 20040003008A1).

Art Unit: 2135

In reference to claims 4, 10, 21, and 29 Son discloses a security system for a cable distribution network. The system descrambles the content in the program data (column 3 lines 49-57) using a first key. The system then re-scrambles the code word with a local key (column 3 line 57 to column 4 line 10; the second key disclosed by Son carries out the function of the local key). The program data is then multiplexed and retransmitted in the future to a subscriber (column 4 lines 11-16).

Son does not expressly disclose the remote server receiving a multiplexed signal to retrieve a code word. Son also does not expressly disclose how the code word is inserted into the program data during the multiplexing process.

However, Wasilewski discloses a method to derive the code word needed to acquire the key for descramble content in the program data (step 343 of Fig. 3). In addition, Wasilewski discloses the method of multiplexing to insert the code word into the program data (Fig. 3 part 321).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the methods of Wasilewski to send the data from the broadcast source in Son in a multiplexed form as in Wasilewski, which acquire the codeword and decrypt the data as in Son. The information is re-encrypted as in Son and the codeword is inserted into the program data using the multiplexing process disclosed in the system by Wasilewski. One of ordinary skill in the art would have been motivated to do this because service organizations require access restrictions that are both more secure and more flexible than those in conventional systems, so as to prevent illegal reproductions of the program data while providing legal users a simple and elegant method of viewing the program data.

· Application/Control Number: 09/771,363

Art Unit: 2135

In reference to claims 5 and 11, further comprising inserting modified access criteria in addition to the re-scrambled code word (Son, column 2 lines 40-55). Since the distribution center redistributes the program data, it would be required to change the access information to facilitate access by the subscriber.

In reference to claims 6 and 12, further comprising encrypting the local key with a unit key and inserting the encrypted key into the program data for future access. Wasilewski discusses service instance encryption techniques (Wasilewski, Fig. 2A Part 204).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to encrypt the key into the program data for future access as in Wasilewski in the system of Son. One of ordinary skill in the art would have been motivated to do this because it would provide increased security.

In reference to claims 7 and 13 the local key is a locally generated random number (Son, column 3 line 60 to column 4 line 10).

In reference to claims 8, 16, and 30, wherein the process, once initialized, is performed essentially without CPU intervention (Son, column 48-58). Since the program data is reencrypted and stored, the CPU does not need to carry out encryption once more and is therefore not required for the multiplexing and transmission of the data.

In reference to claims 9, 14, 19, and 27, further comprises packaging the encrypted key as an entitlement management massage prior to insertion into the program data for future access (Wasilewski Fig. 3 part 315).

In reference to 15, certain fields within the entitlement control message would have to include changing the fields since the system by Son re-scrambles the data and would therefore

Page 5

Art Unit: 2135

have to provide the new key to the subscriber. This is done using the entitlement control message.

In reference to claims 17, 23, and 25, further comprises identifying a packet with an entitlement management message. Wasilewski discloses interleaving the EMM with instance data (page 3 paragraph 0053) then it shows the DHCT decrypting the EMM (page 5 paragraph 0077), therefore Wasilewski teaches the DHCT identifying the entitlement management message.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to interleave the EMM as in Wasilewski in the system of Son. One of ordinary skill in the art would have been motivated to do this because it would decrease the number of channels required to deliver the video on demand.

In reference to claims 20 and 28, deriving the key from the entitlement management message (Wasilewski Fig. 3 part 343).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to derive the key form the entitlement management message as in Wasilewski in the system of Son. One of ordinary skill in the art would have been motivated to do this because separating the key into two forms of delivery increases the security therefore the EMM is used as the second packet used to deliver the key.

In reference to claim 24, wherein identifying the packet with the entitlement control message comprises sorting the program data according to packet identifiers. Wasilewski discloses ECM packet identifiers that are used to identify ECM packets and therefore sort them out form the other packets (page 20 paragraph 304).

Page 6

Art Unit: 2135

In reference to claims 18, 22, 26, 31, and 33, The system disclosed by Son re-encrypts the data and then sends the data to the new subscriber. Therefore the data in the entitlement management message and the entitlement control message as received from the broadcast source, will be deleted and the new data sent to the subscriber by the remote server would be created.

In reference to claim 32, further comprising an entitlement management message injector unit that injects the local key into an entitlement management message (Wasilewski Fig. 2A part 200).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to inject the local key into the entitlement management message as in Wasilewski in the system of Son. One of ordinary skill in the art would have been motivated to do this because in the video delivery network the Entitlement management message is used to convey entitlement information and keys to the user.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W Klimach whose telephone number is (703) 305-8421. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

\*Application/Control Number: 09/771,363

Art Unit: 2135

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK Wednesday, May 05, 2004

SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2100